



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

Report upon the Meeting of the Botanical Club of the A. A. A. S.,
Cleveland, Ohio, August 15th to 21st, 1888.

[Owing to the absence of a number of its more prominent members, the meeting this year was, in some respects, inferior to some of its predecessors, but nevertheless offered much to repay those who attended.]

As usual the meetings occupied the hour previous to the assembling of the general sections of the Association and were held in one of the rooms of the High School, which was the headquarters for the whole Association and admirably adapted to its purpose.]

WEDNESDAY, AUGUST 15th.

Meeting called to order at 9 A. M. The President, Mr. David F. Day in the chair. Rev. W. M. Beauchamp was elected Secretary *pro tem.* in the absence of Prof. V. M. Spalding. The President opened the meeting by an address including a memoir of Dr. Gray and a recommendation that the club be incorporated as a section of the Association.

Before the reading of the papers in the day's programme two motions were made and carried: one to the effect that the Secretary should be provided with a book for permanent records of the Club; the other, that a committee be appointed to consider the proposition in regard to uniting the Club with the biological section of the Association. As members of this committee the Chairman appointed Messrs. W. H. Hale, Thos. Meehan and J. F. Cowell.

It was also resolved that a committee should be appointed to provide for the publication of the proceedings of the Club. The committee appointed consisted of Messrs. W. H. Seaman, W. H. Hale and Thos. Meehan.

Mr. Thos. Meehan read papers on "Dicæcious Labiataë," and "The Elastic Filaments of the Stamens of Compositæ;" and Mr. J. F. Cowell followed with "Observations on *Azalea nudiflora* and *Corallorhiza*."

THURSDAY, AUGUST 16th.

After the meeting had been called to order, the question of making the Club a special section of the Association, or else a

sub-section of Section F, was discussed. The report of the committee was read, and in this they strongly recommended that the independent organization of the Club should be maintained. After further discussion, their recommendation was unanimously adopted.

The President then announced that an invitation had been extended to the Club, by Mr. J. D. Rockefeller, to visit his grounds. As, however, the time of the Club was already fully provided for, it was decided that the Club as a body could not set a date when it would be possible to accept the invitation, and, on motion of Prof. C. R. Barnes, the regrets of the Club at their inability to accept the invitation, were ordered to be transmitted to the sender.

Mr. Thos. Meehan spoke of the death of Dr. Gray and suggested that resolutions ought to be adopted by the Club in reference to it, and the following gentlemen were appointed as a committee to draft such resolutions: Messrs. C. R. Barnes, Thos. Meehan and D. S. Kellicott.

Rev. W. M. Beauchamp read a paper on "Onondaga Indian Plant Names."* Mr. Beauchamp also exhibited specimens of *Erythræa Centaurium*, gathered near Oswego, a plant new to many of those present.

Mr. Thos. Meehan read a paper on "Irregular Tendencies in the Tubulifloral Compositæ."†

Prof. E. L. Sturtevant read a paper on "Observations on the genus *Capsicum*," accompanied by numerous beautifully executed colored drawings, showing the great variations in the fruit of different varieties. The author pointed out the difficulty of distinguishing species in plants that had been long cultivated, and expressed his doubts as to the validity of certain accepted species of the genus under consideration. Mr. Meehan expressed his interest in the paper, and said he was inclined to believe that all the cultivated capsicums were merely varieties of a single species.

The last paper was by Prof. B. E. Fernow, on the subject "What is a Tree?" In the paper the author pointed out the desirability of a generally accepted definition of the word "tree,"

* See this BULLETIN, p. 262.

† See this BULLETIN, p. 266.

and showed how authorities differ in regard to it. The following definition was suggested: "Trees are woody plants, the seeds of which have the inherent capacity of forming a definite trunk supporting a crown of branches."

After some discussion of the paper, the meeting adjourned.

FRIDAY, AUGUST 17TH.

After some preliminary business, the following resolutions, in memory of Professor Gray, prepared by the committee appointed for that purpose, were unanimously adopted:

"*Resolved*, That the Botanical Club of the American Association sincerely regrets that, meeting but once a year, it should be among the last to place on record the sense of the great loss which the whole range of science suffers by the death of Professor Gray.

"*Resolved*, That, though among the last to contribute to the wreath of sorrow with which science is everywhere crowning the memory of Dr. Gray, this body takes a mournful pride in remembering that he was one of its honored members, and that it was as a botanist he won such eminent renown. We feel that we have a right to be among the chief mourners at his departure from the field of labor he loved so well, and in a special degree to unite our sympathies with the many thousands who miss him everywhere.

"*Resolved*, That copies of these resolutions be forwarded to the family of our deceased friend and to the botanical and other scientific periodicals for publication."

Papers were read by Prof. C. R. Barnes on "The Cause of the Acridity in the Corm of *Arisæma*," and by Mr. A. A. Crozier on "Secondary Effects of Pollination." Professor Barnes stated that it was probable that the intensely burning taste of the juice of *Arisæma* was due, as suggested by Stahl for the European *Arum maculatum*, to mechanical causes; i. e. the irritation produced by the numerous raphides with which the juice is filled. Professor Barnes found that when these were removed by filtering the acrid taste was completely lost.

Mr. Crozier's paper was read by Prof. Cowell, the author being absent. From the author's experiments, mostly in different varieties of apples, he concluded that the influence of foreign pollen did not extend beyond the seeds.

Mrs. H. L. Wolcott exhibited the leaves of a form of choke-cherry which she described as having amber-colored berries and much shorter racemes than the ordinary form.*

Prof. W. R. Lazenby brought up the question as to the dis-

* See this BULLETIN, p. 267.

tinctness of the two forms of Virginia Creeper, which was discussed at some length by several members.

A letter from Dr. Geo. Vasey was read, on "American Desert Plants," after which the meeting adjourned.

In the afternoon the Club made an excursion to Brighton, a suburb of Cleveland, but the flora of the vicinity did not present many novelties. One of the most interesting plants found was *Jeffersonia diphylla*, of which fine specimens were obtained in fruit.

SATURDAY, AUGUST 18TH.

The entire day was devoted to a trip on the steamer "City of Cleveland," to the Put-in-Bay Islands. The trip was such a long one as to allow but little time for botanizing.

MONDAY, AUGUST 20TH.

The following papers were read: by Prof. Jos. F. James on "*Dentaria laciniata*, and *D. multifida*;" by Mr. F. L. Scribner on "Observations on Nomenclature" and "*Sphaerella Fragariæ*;" and by Mr. Thos. Meehan, on "Peduncular Bracts in *Tilia*."

Prof. James also exhibited a form of *Asclepias tuberosa* with flexuous stem and sub-opposite leaves, which he thought was sufficiently distinct to be regarded as a variety.

The committee on nominations of officers for the ensuing year reported in favor of Professor T. J. Burrill, of Champaign, Ill., for President, and Douglas H. Campbell, of Detroit, Mich., for Secretary, and also recommended that the office of Vice-President be created, and named Prof. Byron D. Halsted of Ames, Iowa, for the office. The report of the Committee was accepted, and the officers elected.

TUESDAY, AUGUST 21ST.

Prof. W. R. Lazenby read a paper on "The Flowering Plants of Ohio," and was followed by some remarks by Mr. David F. Day on those of the vicinity of Buffalo, and by Mr. Beauchamp on the Cayuga flora.

Mr. F. L. Scribner read a paper upon and discussed the genus *Andropogon*.

Prof. V. M. Spalding contributed a paper on "Changes Produced in the Host Plant by *Puccinia graminis*." The author being absent, the paper was read by Mr. D. H. Campbell.

Prof. M. B. Waite contributed a paper on "Changes in the Local Fungus Flora of Champaign, Ill." In the absence of the author, the paper was read by Mr. Scribner.

Prof. W. J. Beal read a paper entitled "Notes on Some Flowering Plants of Michigan."

At the conclusion of the meeting the Club adjourned to meet next year in Toronto, Canada.

Besides the papers read before the Botanical Club, the following botanical papers were read in Section F of the Association: "A Plea for Uniformity in Biological Nomenclature," N. L. Britton; "A Study of *Hydrangea* as to the Objects of Cross-Fertilization," Thos. Meehan; "A Phase of Evolution," E. L. Sturtevant; "Notes on the Inflorescence of *Callitriche*," Jos. Schrenk; "Hygroscopic Movements in the Cone-Scales of *Abietineæ*," A. N. Prentiss; "Some New Facts in the Life-History of *Yucca* and the *Yucca* Moth," Thos. Meehan; "On the Cause and Significance of Dichogamy in Flowers," Thos. Meehan; "Adaptation in the Honeysuckle and Insect Visitors," Thos. Meehan; "Comparison of the Flora of Eastern and Western Michigan in the latitude of 44° 40'," W. J. Beal; "Observations on the Succession of Forests in Northern Michigan," W. J. Beal; "The Systematic Position of the *Rhizocarpeæ*,"* Douglas H. Campbell; "Pollen Germination and Pollen Measurements," Byron D. Halsted.

The following botanical papers were read before the Society for the Promotion of Agricultural Science: "Peculiarities of the Plants of Northern Michigan," W. J. Beal; "Notes on the Flowering Plants of Ohio," W. R. Lazenby; "Potato Flowers and Fruit," Byron D. Halstead; "Tomato Flowers and Fruit," Byron D. Halstead; "A Further Study of the Dandelion," E. L. Sturtevant; "Successful Treatment of Black Rot," F. L. Scribner.

DOUGLAS H. CAMPBELL.

The Systematic Position of the *Rhizocarpeæ*.†

As is well known to botanists, the *Rhizocarpeæ* are distinguished from the other *Filicineæ* in having spores of two kinds,

* See this BULLETIN, p. 258.

† Read before Section F, at the Cleveland meeting of the A. A. A. S., 1888.